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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR 09/825,909 04/04/2001 David L. Thompson P-8999 3722 EXAMINER 27581 7590 10/28/2003 MEDTRONIC, INC. OROPEZA, FRANCES P 710 MEDTRONIC PARKWAY NE ART UNIT PAPER NUMBER MS-LC340 MINNEAPOLIS, MN 55432-5604 3762 DATE MAILED: 10/28/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

1			/
	Application No.	Applicant(s)	
,	09/825,909	THOMPSON ET AL.	
Office Action Summary	Examiner	Art Unit	_
	Frances P. Oropeza	3762	
The MAILING DATE of this communication app Period for Reply	ears on the cover she	et with the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, r within the statutory minimum will apply and will expire SIX (6 cause the application to beco	nay a reply be timely filed of thirty (30) days will be considered timely.) MONTHS from the mailing date of this communication. me ABANDONED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on 9/18	<u> 7/03 (Amendment)</u> .		
2a) This action is FINAL . 2b) ⊠ Th	is action is non-final.		
3) Since this application is in condition for allowed closed in accordance with the practice under a Disposition of Claims			
4)⊠ Claim(s) <u>1-5 and 8-13</u> is/are pending in the ap	plication.		
4a) Of the above claim(s) <u>8-13</u> is/are withdrawn	from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-5</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or Application Papers	r election requiremen	t.	
9) The specification is objected to by the Examiner	r		
10) The drawing(s) filed on is/are: a) accept		by the Evaminer	
Applicant may not request that any objection to the		•	
11) The proposed drawing correction filed on			
If approved, corrected drawings are required in rep			
12) The oath or declaration is objected to by the Ex	aminer.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S	S.C. § 119(a)-(d) or (f).	
a) All b) Some * c) None of:			
1. Certified copies of the priority documents have been received.			
2. Certified copies of the priority documents have been received in Application No			
 3. Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list 	reau (PCT Rule 17.2	(a)).	
14) ☐ Acknowledgment is made of a claim for domestic	c priority under 35 U.	S.C. § 119(e) (to a provisional application).	
 a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesting 	* *		
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Noti	view Summary (PTO-413) Paper No(s) ce of Informal Patent Application (PTO-152) er:	

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DETAILED ACTION

Restriction/Election

1. Newly submitted claims 8-13 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: Newly submitted independent claims 8 and 13 are directed to a method and computer readable medium, respectively. Claims 8 and 13 both claim the limitations of "intermittently... collecting data" and "substantially continuously transmitting data"; both of these limitations are not found in the original independent claim 1.

Since the Applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 8-13 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Response to Arguments

2. The Applicant's arguments filed 9/18/03 have been fully considered. The arguments regarding the rejection based on Prochazka et al., Salo et al. (and Schulman et al.) are convincing, hence this rejection of record is withdrawn.

Claim Rejections - 35 USC § 102

3. Claims 1, 2, 4 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Tockman et al. (US 5562707). Tockman et al. teach a method and apparatus to automatically optimized the pacing mode and pacing cycle parameters of an implantable stimulating device using and optimization sequence, read as providing a dynamic closed loop self monitoring

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system. The apparatus comprises a pacemaker (10), a micro-controller (32) an RF telemetry link (40), and external sensors/ monitors (42-50), including and oximeter (50). (figure 1; col. 1 @ 8-15; col. 1 @ 66 – col. 2 @ 15; col. 3 @ 58-62; col. 3 @ 66 – col. 4 @ 24; col. 5 @ 8 – col. 6 @ 59).

The monitor (42) and sensor (44, 46, 48, 50, 52) are read to be the external sensor. It is well established that it is not novel to make two elements integral (Howard v. Detroit Stove Works, 150 US. 164 (1893)).

The Applicant's arguments filed 9/18/03 have been fully considered but they are not convincing.

The Applicant asserts Tockman et al. do not disclose an external sensor module transmitting physiological data by way of the sensor signals to the IMD using the telemetry link (RF signals) so the processor in the IMD can process the data collected by the external sensor to implement dynamic closed loop self monitoring therapy delivery. The Examiner disagrees. The processing of the sensor data can be performed by the external monitor (42) or by the microprocessor (32) of the implanted device (10) (col. 4 @ 52-56). As shown in figure 2, the sensor data enters the "software" of the implanted device microprocessor (32) at (figure 2 - 56) and follows path (figure 2 - 66) to the input block (figure 2 - 68) (col. 5 @ 44-49). The sensor data is transferred to the "software" located in the microprocessor (32) of the implanted device (10) using telemetry/ RF signals (40) (figure 1). The implementation of the "software" of figure 2 is read as implementing dynamic closed loop self monitoring therapy delivery, hence the rejection of record stands.

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Claim Rejections - 35 USC § 103

4. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tockman et al. (US 5540727) in view of Kopotic (US 6470199). As discussed in paragraph 3 of this action, Tockman et al. disclose the claimed invention except for providing an external sensor module in the configuration of a sock.

Kopotic et al. teach oximetry sensing using an oximeter sensor module in the configuration of a sock for the purpose of securing the oximeter in place. It would have been obvious to one having ordinary skill in the art at the time of the invention to have used a oximeter sensor module in the configuration of a sock in the Tockman et al. system in order to properly position the sensor on the patient, avoiding misalignment of the emitter and detector of the oximeter leading to faulty oximeter readings, inaccurate determination of the pulse rate and blood oxygen saturation and inappropriate therapy (col. 1 @ 19-24 and 34-52; col. 2 @ 30-42; col. 12 @ 55-56).

Statutory Basis

5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Fran Oropeza whose telephone number is (703) 605-4355. The Examiner can normally be reached on Monday – Thursday from 6 a.m. to 4:30 p.m..

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Angela D. Sykes can be reached on (703) 308-5181. The fax phone numbers for the

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organization where this application or proceeding is assigned are (703) 306-4520 for regular communication and (703) 306-4520 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0858.

Frances P. Oropeza Patent Examiner

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JPO 10/24/03

ANGELA D. SYKES SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700

Cingel. D. Apr.